



SAMSUNG SMART LED SIGNAGE XPE SERIES

Deliver Brilliant and Durable Content in any Outdoor Environment

Often subjected to variable weather conditions and exposure to natural and ambient light, outdoor environments can be among the most challenging for business owners to deliver clear meaningful content. Samsung's new SMART LED signage XPE Series alleviates these challenges through a reinforced design that shares uninterrupted, color-uniform content in any setting. Durable and fine-tuned to meet customers' needs, the XPE Series is the ideal display to help businesses achieve their goals and captivate consumers.

HIGHLIGHTS

- Ultra-high 49,920 Hz. refresh rate supports clear video content without interruption
- Cabinet design deters light interference to deliver bright, crisp images
- Two-step pixel-by-pixel calibration produces consistent and accurate colors
- Rigorous testing validates displays' ability to perform in various environmental conditions
- Round-the-clock support ensures optimal performance at every state of the customer process

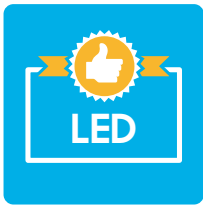
SAMSUNG

INDUSTRY TRENDS

As businesses look for new ways to engage customers, LED display technologies have emerged as a popular go-to upgrade. New advances in display brightness and picture quality further inspire forward-thinking businesses to consider replacing outdated analog displays in often-challenging outdoor settings. With new technologies inspiring creativity, and barriers to entry disappearing, businesses are more open to the idea of leveraging digital signage to create unique, sophisticated and memorable customer experience and gain a potential edge on their competition.

SAMSUNG'S XPE SERIES LED SIGNAGE: INTRODUCING THE POWER OF LED CONTENT TO OUTDOOR SETTINGS

Customizable and engineered for long-term performance, Samsung's XPE Series signage ensures continuous and brilliant message delivery that helps businesses achieve their goals, even in potentially demanding conditions.



INDUSTRY-LEADING IMAGE QUALITY

Samsung brings the world's leading digital display company with its leading LED technology to deliver the highest-quality LED content possible. Through in-depth calibration, enhanced image processing and an industry-best contrast ratio, Samsung offers the LED signage that solves content challenges while maintaining optimal performance and appearance.



PROACTIVE EXPERT SUPPORT

A successful LED investment requires time and resources to ensure continuous and smooth long-term operation. Samsung holds high level of expertise within the LED signage marketplace, and provides end-to-end customer support that makes for convenient and effortless display management.

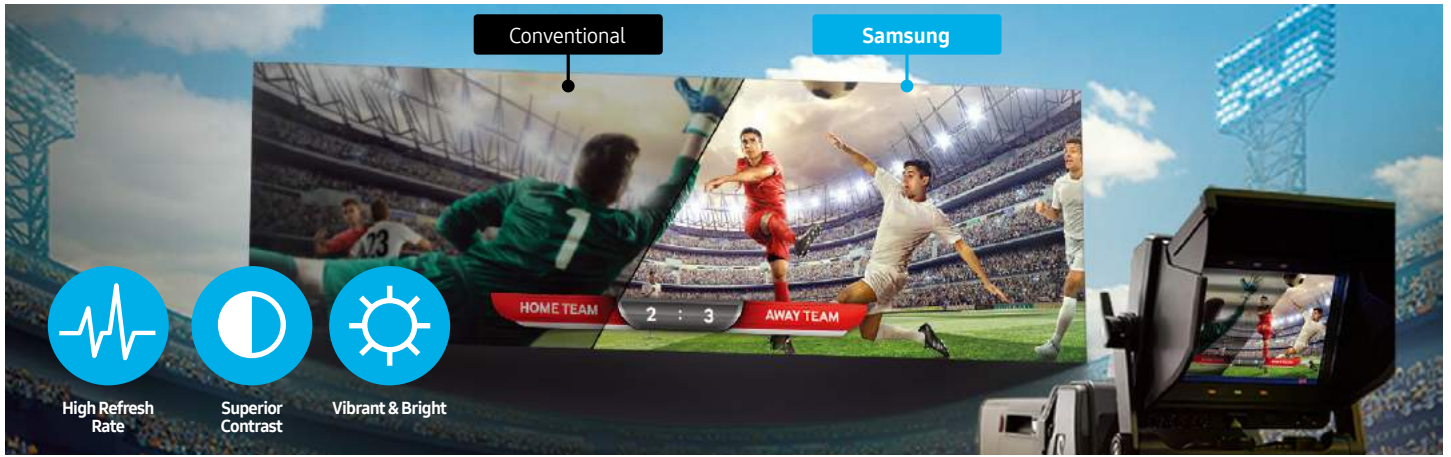


ENERGY-EFFICIENT PERFORMANCE

Beyond a commitment to improving customers' businesses, Samsung's signage also reflects a commitment to bettering the environment. Our LED signage is sustainably composed, and helps customers reduce their energy expenses while simultaneously achieving their own eco-centered goals.



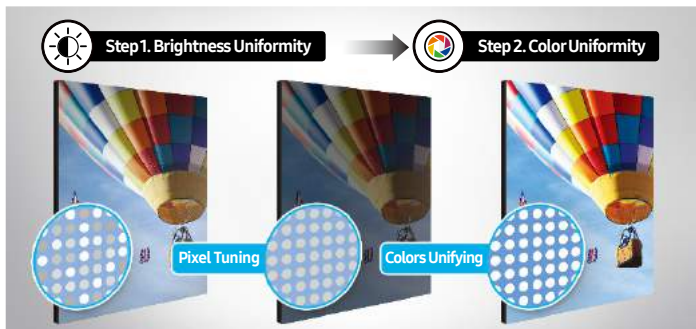
KEY FEATURES



SUPERIOR IMAGE QUALITY

Samsung's XPE Series LED Signage delivers excellent image quality that captures audience eyes even in challenging environments. Through advanced video processing technologies, the displays produce an ultra-high 49,920 Hz. ¹⁾ refresh rate that streams videos without interruption. The XPE Series also is equipped to deter light interference, and produce bright (7,500 nit) ²⁾ images regardless of conditions.

¹⁾²⁾ Refer to specifications for details as refresh rate and brightness can differ by models.



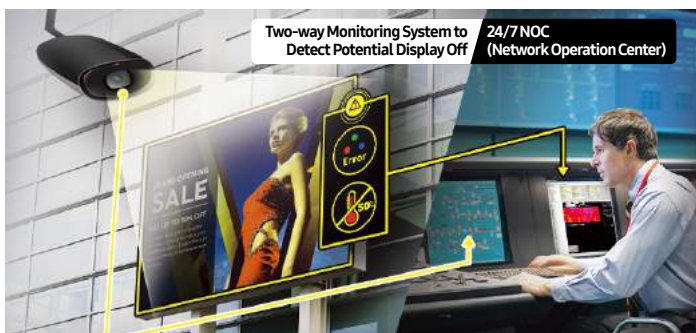
SPECIALIZED COLOR TUNING

Samsung's two-step calibration process delivers accurate and consistent color quality. First, display experts close color distortion gaps by tuning pixels to the lowest possible brightness level. Next, each pixel undergoes LED voltage adjustment that creates perfect color uniformity as brightness settings increase. By achieving the correct color tones, this thorough calibration process produces high-quality imagery with optimal color integrity.



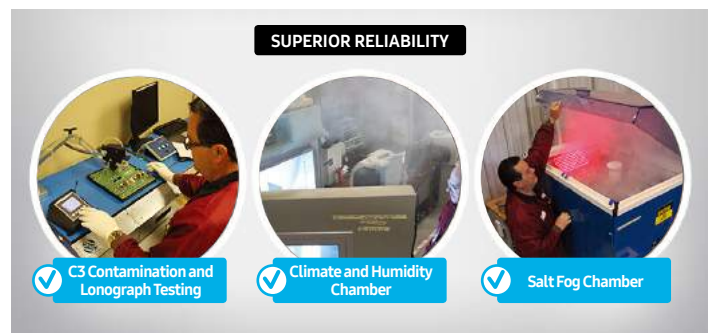
END-TO-END PROJECT MANAGEMENT

During each installation, Samsung establishes a centralized customer support center that remedies and prevents common LED performance challenges. A dedicated expert answers questions and ensures optimal performance throughout the planning, consulting, designing and producing, shipping, installing and maintenance stages. This proactive, involved approach not only saves customers time and money, but alleviates problems quickly and effortlessly.



PROACTIVE ERROR RESOLUTION

To further this end-to-end project management, each XPE Series signage easily identifies common LED performance problems. A two-way monitoring system notifies Samsung's Network Operating Center (NOC) of potential "display off" errors, color and temperature discrepancies, and LED dot errors. Once received, the NOC team proactively notifies and works with customers to address such issues and ensure seamless content delivery.



SUPERIOR RELIABILITY

Each XPE Series signage undergoes rigorous environmental testing to ensure uninterrupted performance. C3 Contamination and Ionograph testing deters circuit contamination and extends shelf-life. Complementary Climate and Humidity and Salt Fog Chamber exposure additionally ensures performance in variable weather conditions and wet and corrosive elements. This enhanced durability gives customers peace of mind, and prevents frustrating and expensive maintenance.

SPECIFICATIONS

MODEL		XPE060	XPE080	XPE100
Physical Parameter	Pixel Pitch	6.35mm (.25") centers	8.255mm (.325") centers	10.32mm (.40625") centers
	Pixel Configuration	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue
	Pixel Density	24,800 m ² / 2,313 ft ²	14,675 m ² / 1,363 ft ²	9,392 m ² / 876 ft ²
	Diode Density	74,400 m ² / 6,939 ft ²	44,025 m ² / 4,089 ft ²	28,176 m ² / 2,628 ft ²
	Module Configuration (LxH)	32x32 pixels	32x36 pixels	32x16 pixels
	Diode Type	Surface Mount Device (SMD)	Surface Mount Device (SMD)	Surface Mount Device (SMD)
	Dimensions (LxH) (per module)	203x203 mm	264x297 mm	330x165 mm
	Weight (per module)	0.54kg	1kg	0.69kg
	Cabinet Construction	All aluminum construction	All aluminum construction	All aluminum construction
Optical Parameter	Brightness	7,500 nit	7,500 nit	7,500 nit
	Contrast Ratio	8,500:1	10,000:1	10,000:1
	Viewing Angle - Horizontal	160° (+/- 80°)	160° (+/- 80°)	160° (+/- 80°)
	Viewing Angle - Vertical	95° (+40/- 55°)	101° (+38.5/- 62.5°)	65° (+15/- 50°)
	Number of Colors	281 trillion colors	281 trillion colors	281 trillion colors
	Gray Scale Intensity	65,536 levels of red, green, and blue	65,536 levels of red, green, and blue	65,536 levels of red, green, and blue
	Dimming Capability	256 levels of brightness	256 levels of brightness	256 levels of brightness
	Color Temperature - Default	6,500K	6,500K	6,500K
	Color Temperature - Adjustable	4,500 - 9,000K	4,500 - 9,000K	4,500 - 9,000K
Electrical Parameter	Video Rate	60 frames per second	60 frames per second	60 frames per second
	Animation Rate	60 frames per second	60 frames per second	60 frames per second
	Video Processing	24 bit, 100% digital	24 bit, 100% digital	24 bit, 100% digital
	Color Processing	16 bit per color (48 bit total)	16 bit per color (48 bit total)	16 bit per color (48 bit total)
	Input Power Range	120/240 volts, 50/60 Hz	120/240 volts, 50/60 Hz	120/240 volts, 50/60 Hz
	Power Consumption - Max	827 (W/m ²) / 76.8 (W/ft ²)	735 (W/m ²) / 68.3 (W/ft ²)	737 (W/m ²) / 68.5 (W/ft ²)
	Power Consumption - Typical	207 (W/m ²) / 19.2 (W/ft ²)	184 (W/m ²) / 17.1 (W/ft ²)	184 (W/m ²) / 17.1 (W/ft ²)
	Refresh Rate	49,920hz	49,920hz	49,920hz
	Scan Rate	Scan Rate 1:1 non-multiplexed	Scan Rate 1:1 non-multiplexed	Scan Rate 1:1 non-multiplexed
	Calibration	Pixel to pixel - Module to module	Pixel to pixel - Module to module	Pixel to pixel - Module to module
	Calibration White Point	D65 - 6500K	D65 - 6500K	D65 - 6500K
	Calibration Standards	REC 709, REC 2020 or Max Gamut	REC 709, REC 2020 or Max Gamut	REC 709, REC 2020 or Max Gamut
Operation Conditions	Working Temperature	-40°C to 55°C (-40°F to 131°F)	-40°C to 55°C (-40°F to 131°F)	-40°C to 55°C (-40°F to 131°F)
	Cooling	Quiet running vent fans	Quiet running vent fans	Quiet running vent fans
	IP Rating	Silicone sealed (Module IP67, Cabinet IP65)	Silicone sealed (Module IP67, Cabinet IP65)	Silicone sealed (IP65)
	LED Lifetime	100,000 hours (* in normal usage)	100,000 hours (* in normal usage)	100,000 hours (* in normal usage)
Certification	Certification	CE, UL / ULC listed	CE, UL / ULC listed	CE, UL / ULC listed
Service	Service	Front Service and/or Rear Service	Front Service and/or Rear Service	Front Service and/or Rear Service

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SMART LED Signage

For more information about Samsung SMART LED Signage, visit www.samsung.com/business or www.samsung.com/displaysolutions

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